

Abstract of the Disclosure

A vacuum fluorescent display includes a cathode electrode, grid electrode, anode electrode, at least one envelope, phosphor screen, and cap. The cathode electrode emits electrons. The grid electrode
5 extracts the electrons from the cathode electrode. The anode electrode accelerates the electrons extracted from the cathode electrode. The envelope accommodates the cathode electrode, grid electrode, and anode electrode in a vacuum space and has a phosphor screen plate having
10 light transmission properties. The phosphor screen is formed on an inner surface of the phosphor screen plate of the envelope and adapted to emit light upon bombardment of the electrons accelerated by the anode electrode. The cap is made of an X-ray shielding
15 material and supported outside the envelope so as to surround the phosphor screen plate of the envelope through a gap. The cap has a light exit portion from which the light emitted from the phosphor screen emerges through the phosphor screen plate of the envelope.